

PDS4 Software Update

PDS Management Council Face-to-Face Tucson, Arizona April 10-11, 2014

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Overview

- Build 4a
 - Deployed to EN operations in February after ORR Board approval.
 - Node deployment underway.
- Build 4b
 - Delivered on March 31, 2014.
 - Currently undergoing integration and test.





Deployment Status

- Node deployments of Build 4a started in February with Atmospheres.
- PPI, SBN, Geosciences, Rings and Imaging were invited to perform the deployment in March.
- Atmospheres and Geosciences have completed deployment of the core components.
- Some are in progress, others haven't started and a couple have yet to be asked.
 - Those who haven't started should deploy Build 4b software moving forward.





Build 4b Summary

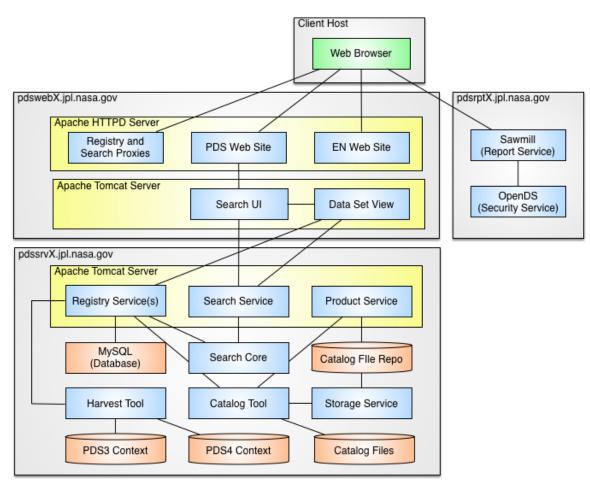
- Modifications to keep pace with changes occurring in the PDS4 data model.
- Harvest Tool and Validate Tool were modified to provide support for xinclude statements within product labels.
- Transform Tool was modified to streamline the API for use by other services.
- Search modified to better handle PDS4 context products and the PDAP protocol.



Build 4b

PDS Planetary Data System

EN Deployment







Issue Tracking

- A separate JIRA project has been created for PDS software:
 - https://pds-jira.jpl.nasa.gov/browse/SW
- This instance will track high-level issues and requests originating from outside the EN.
- EN will continue to utilize our internal instance for tracking our specific activities.
- Current RFA's need to be evaluated for possible promotion to a tracked issue.
 - I'll need about a month to get these in order.





Reporting

- Sawmill software installed at the EN.
 - In the process of moving it to new hardware.
- Utilizing the service for web metric reports.
 - EN for the last two months.
 - Reports generated for IMG last month.
- Ready to start pulling and transform Node web logs for service population. Really.





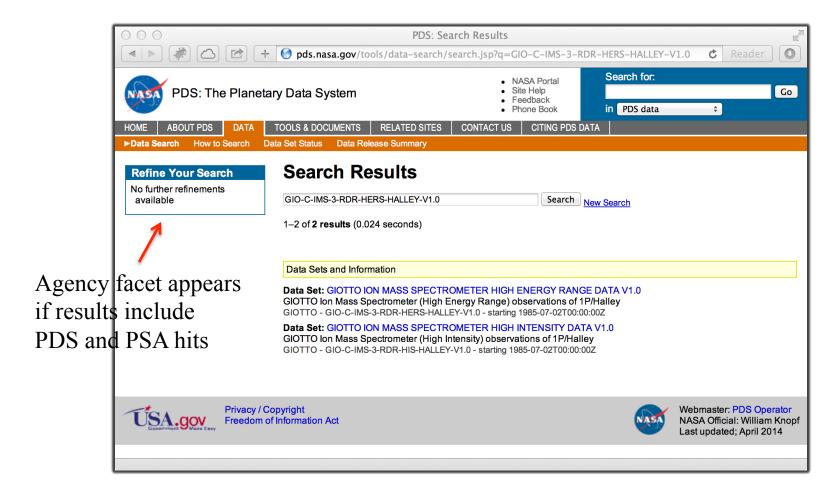
Data Set Source

- As previously mentioned, there is duplication of PDS3 Data Sets among the PDS and PSA.
 - There are 259 to be exact.
- The immediate resolution was to remove the duplicates from the PSA registry and re-index.
- Support for displaying both has been implemented.
 - Search interface offers Agency facet to filter on PDS or PSA results.
 - Additional source identification in search results is under consideration.





Data Set Source cont.

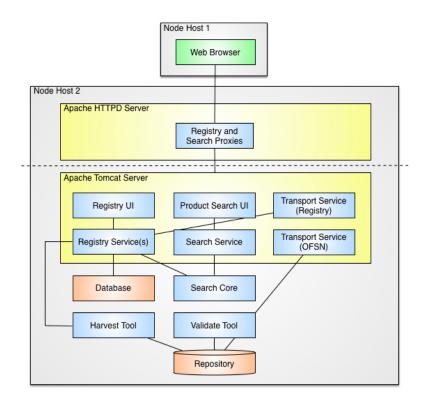






Securing PDS4 Services

- Looking to provide a few options.
- Services can be secured within Apache Tomcat, but it does complicate the installation and operation.
- The preferred method is to secure via reverse proxy from an Apache HTTP server.







Build 5a and Beyond

- Continue to support data model changes.
- Add support for additional transformations.
- Add support for content validation.
- Add support for visualization.
- Better integrate search results with available tools and services.
- Get the Tracking Service underway.
 - This is where archive status and certification status will reside for PDS4 bundles/collections.





Next Steps

- Work with the Nodes on Report Service population.
- Work with the Nodes to deploy the PDS4 software locally.
 - Start registering some stuff.
- Build 5a Development
 - Focus on product-level support including content validation, search, transformation and visualization.

Questions/Comments